

APPENDIX G.
Special Status Species Eliminated
From Further Consideration

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Special Status Species Eliminated From Further Consideration

Special Status Species eliminated from further consideration: Segment 1, El Paso County, Texas.

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Plants			
Sneed pincushion cactus <i>Coryphantha sneedi</i>	E	Limestone outcrops and rocky slopes of mountains within the Chihuahuan Desert.	None—Habitat for this species (e.g., limestone outcrops) is not present in the project area.
Birds			
Bald eagle <i>Haliaeetus leucocephalus</i>	T	Large trees or cliffs near rivers, reservoirs, and streams with an abundant prey base (e.g., fish and waterfowl).	None—The project area does not have habitat to support either breeding or wintering birds.
Interior least tern <i>Sterna antillarum anthalassos</i>	E	Nests on sand bars, alkali flats, and islands.	None—No suitable nesting habitat in the project area.
Mexican spotted owl <i>Strix occidentalis lucida</i>	T	Canyons and dense multi-layer forests mixed conifer or ponderosa pine-gambel oak above 4,100 feet.	None - The forested, mountain areas this species requires are not present in or near the Segment 1 project area.
Piping plover <i>Charadrius melodus</i>	E	Gravelly shorelines of lakes, river sandbars, and alkali wetlands.	None—Project area in Segment 1 does not contain suitable habitat.
Southwestern willow flycatcher <i>Empidonax traillii eximius</i>	E	Dense cottonwood-willow & tamarisk riparian communities. Along rivers and streams.	None—Project area in Segment 1 is lacking the well developed, dense riparian forest required by this species.
Yellow-billed cuckoo <i>Coccyzus americanus</i>	C	Riparian forests and woodlands.	None—Vegetation communities in the project area in Segment 1 are not similar to those known to support this species.
Whooping crane <i>Grus americana</i>	E	Marshes and prairie potholes supporting prey species: insects, frogs, rodents, and small birds.	None—Project area in Segment 1 does not contain suitable habitat.
Mammals			
Black-tailed prairie dog <i>Cynomys ludovicianus</i>	C	Open grasslands; short grass plains including Semidesert Grassland within the Chihuahuan desert.	None—Project area in Segment 1 does not contain suitable habitat.

USFWS categories: Threatened (T), Endangered (E), Proposed (PT, PE), Candidate (C)

Primary sources:

Special Status Species eliminated from further consideration: **Segment 2**, Dona Ana, Luna, and Hidalgo, New Mexico; and Cochise County, Arizona.

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Plants			
Canelo Hills ladies'-tresses <i>Spiranthes delitescens</i>	E	Known from finely grained, saturated soils of cienegas.	None - This species has a very limited distribution well south of the project area.
Cochise pincushion cactus <i>Coryphantha robbinsorum</i>	T	Known from semidesert grassland on gray limestone hills.	None—Gray limestone hills are not present in project area.
Huachuca water umbel <i>Lilaeopsis schaffneriana ssp. recurva</i>	E	Cienegas, perennial low gradient streams, wetlands.	None - This species' aquatic habitat is not present in the project area within Segment 2. Habitat for this plant species includes a total of 52 miles of streams or rivers in Cochise and Santa Cruz counties, Arizona; far removed from the project area.
Lemmon fleabane <i>Erigeron lemmonii</i>	C	Vertical limestone cliffs above 6,300 feet in pine-oak woodland.	None—Project area in Segment 2 does not contain suitable habitat.
Sneed pincushion cactus <i>Coryphantha sneedi</i>	E	This species is known from the Franklin Mountains on limestone soils well east of Segment 2.	None—Project area in Segment 2 does not contain suitable habitat.
Zuni fleabane <i>Erigeron rhizomatus</i>	T	Open pinon-juniper woodlands above 7,300 feet.	None—Project area in Segment 2 does not contain suitable habitat.
Fish			
Beautiful shiner <i>Cyprinella formosa</i>	T	Streams and ponds; only a few isolated populations remain.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Gila chub <i>Gila intermedia</i>	PE	Cienegas and deep pools in smaller headwater streams.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Gila topminnow (incl. Yaqui) <i>Poeciliopsis occidentalis</i>	E	Springs, streams, and cienegas.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Loach minnow <i>Tiaroga cobitis</i>	T	Small to large perennial streams with swift shallow water over cobble and gravel.	None - This species' aquatic habitat is not present in the project area within Segment 2.

Rio Grande silvery minnow <i>Hybognathus amarus</i>	E	Currently limited to the Rio Grande River between Cochiti Dam and Elephant Butte Reservoir.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Spikedace <i>Meda fulgida</i>	T	Moderate to large perennial streams with gravel cobble substrates and moderate to swift velocities.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Yaqui catfish <i>Ictalurus pricei</i>	T	Streams with slow current over sand and rock bottoms; above 4,000 feet.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Yaqui chub <i>Gila purpurea</i>	E	Perennial streams, pools, or ponds near undercut banks; above 4,000 feet.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Zuni bluehead sucker <i>Catostomus discobolus yarrowi</i>	C	Shaded pools in rivers.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Amphibians			
Chiricahua leopard frog <i>Rana chiricahuensis</i>	T	Streams, rivers, backwaters, and ponds.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Sonoran tiger salamander <i>Ambystoma tigrinum stebbinsi</i>	E	Known from stock tanks and impounded cienegas in Huachuca Mountains.	None - This species' aquatic habitat is not present in the project area within Segment 2.
Reptiles			
New Mexico ridge nosed rattlesnake <i>Crotalus willardi obscurus</i>	T	Known from pine-oak vegetative communities in mountains above 5000 feet.	None—The project area is situated below 5000 feet in basin bottoms.
Birds			
Bald eagle <i>Haliaeetus leucocephalus</i>	T	Large trees or cliffs near rivers, reservoirs, and streams with an abundant prey base (e.g., fish and waterfowl).	None—The project area does not have habitat to support either breeding or wintering birds. Perennial waters with associated prey base are not present.
California brown pelican <i>Pelecanus occidentalis californicus</i>	E	Coastal and islands; in Arizona occurs around lakes and rivers.	None - Suitable coastal habitat is not present. Only possibility of occurring in project area would be when blown far inland from a storm.
Least tern <i>Sterna antillarum</i>	E	Nests on sand bars, alkali flats, and islands.	None—Suitable habitat is not present.

Mexican spotted owl <i>Strix occidentalis lucida</i>	T WSCA	Canyons and dense multi-layer forests mixed conifer or ponderosa pine-gambel oak above 4,100 feet.	None - The forested mountain areas this species requires are not present in or near the project area.
Southwestern willow flycatcher <i>Empidonax traillii extimus</i>	E WSCA	Dense cottonwood/willow & tamarisk riparian communities. Along rivers and streams.	None—The project area is lacking the well developed, dense riparian forest required by this species.
Yellow-billed cuckoo <i>Coccyzus americanus</i>	C	Riparian forests and woodlands.	None—Vegetation communities in the project area are not similar to those known to support this species.

Mammals

Black-footed ferret <i>Mustela nigripes</i>	E	Grasslands supporting prairie dog colonies, on which black-footed ferrets depend.	None - This species has been extirpated from New Mexico and southeast Arizona. Further, the project area is not suitable for re-introductions of this species.
Black-tailed prairie dog <i>Cynomys ludovicianus</i>	C	Open grasslands; short grass plains including Semidesert Grassland within the Chihuahuan desert.	None - This species has been extirpated from New Mexico and southeast Arizona. Also, the project area is not suitable for re-introductions of this species given the absence of prairie dog colonies, on which black-footed ferrets depend.
Mexican gray wolf <i>Canis lupus</i>	E	Chaparral, woodland, and forested areas.	None—The vegetation communities in the project area are not similar to those where this species typically would occur. The species has been extirpated from the area.

USFWS categories: Threatened (T), Endangered (E), Proposed (PT, PE), Candidate (C)
 NMDGF category: New Mexico Threatened (NM-T)
 AGFD category: Wildlife Species of Concern in Arizona (WSCA)
 Primary sources: USFWS database (<http://ifw2es.fws.gov/EndangeredSpecies/lists/>)

Special Status Species eliminated from further consideration: Segment 3, Pima and Pinal Counties, Arizona

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Plants			
Arizona hedgehog cactus <i>Echinocereus triglochidiatus var. arizonicus</i>	E	Open slopes in areas of boulder in ecotonal areas between chaparral and woodlands above 3,700 feet.	None - Species distribution is well north of the project area in mountains with woodland and chaparral vegetation.

Special Status Species eliminated from further consideration: Segment 3, Pima and Pinal Counties, Arizona

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Goodings onion <i>Allium goodingii</i>	CA	This species is found above 7,500 feet in mixed coniferous and spruce forests.	None—Project area at much lower elevation and well removed from forest habitat.
Huachuca water umbel <i>Lilaeopsis schaffneriana ssp. recurva</i>	E	Cienegas, perennial low gradient streams, wetlands.	None - No perennial water sources, stock tanks, or impounded cienegas present within the project area.
Kearney's blue-star <i>Amsonia kearneyana</i>	E	The distribution and habitat of this species is the west-facing drainages of the Baboquivari Mountains in riparian forests	None—The project area is well removed from riparian forests in the Baboquivari Mountains.
Nichol's Turk's head cactus <i>Echinocactus horizionthalonius nicholii</i>	E	Found 3,000 and 3,500 feet elevation at the base of limestone mountains.	None—Required limestone soils are not present in the project area.
Pima pineapple cactus <i>Coryphantha scheeri robustispina</i>	E	Sonoran desertscrub or semi-desert grassland communities.	None—Known distribution is well south of the project area.
Invertebrates			
San Xavier talussnail <i>Sonorella eremita</i>	CA	Species known geographic range and habitat is one hillside in south Tucson.	None—The project area is well removed from the species hillside habitat in south Tucson.
Fish			
Desert pupfish <i>Cyprinodon macularius</i>	E	Springs, streams, and marshes.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Gila chub <i>Gila intermedia</i>	PE	Cienegas and deep pools in smaller headwater streams.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Gila topminnow <i>Poeciliopsis occidentalis</i>	E	Springs, streams, and cienegas.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Loach minnow <i>Tiaroga cobitis</i>	T WSCA	Small to large perennial streams with swift shallow water over cobble and gravel.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Razorback sucker <i>Xyrauchen texanus</i>	E	Major rivers and reservoirs in slow moving water.	None - This species' aquatic habitat is not present in the project area within Segment 3.

Special Status Species eliminated from further consideration: Segment 3, Pima and Pinal Counties, Arizona

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Spikedace <i>Meda fulgida</i>	T WSCA	Moderate to large perennial streams with gravel cobble substrates and moderate to swift velocities.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Amphibians			
Chiricahua leopard frog <i>Rana chiricahuensis</i>	T	Streams, rivers, backwaters, and ponds.	None - This species' aquatic habitat is not present in the project area within Segment 3.
Reptiles			
Sonoyta mud turtle <i>Kinosternon sonoriense longifemorale</i>	C	Occurs only in pond and stream habitat a Quitobaquito Springs in Organ Pipe Cactus National Monument and nearby Mexico.	None –The only known location and habitat requirements of this subspecies are far removed from the project area.
Birds			
Bald eagle <i>Haliaeetus leucocephalus</i>	T WSCA	Large trees or cliffs near rivers, reservoirs, and streams with an abundant prey base (e.g., fish and waterfowl).	None—The project area does not have habitat to support either breeding or wintering birds. Perennial waters with associated prey base are not present.
California Brown pelican <i>Pelecanus occidentalis californicus</i>	E	Coastal and islands; in Arizona occurs around lakes and rivers	None - Suitable coastal habitat is not present. Only possibility of occurring in project area would be when blown far inland from a storm.
Masked bobwhite <i>Colinus virginianus ridgewayi</i>	E	Desert grasslands, the Arizona population is currently limited to the Buenos Aires National Wildlife Refuge.	None - The current known range, the Buenos Aires National Wildlife Refuge, is well south of the project area.
Mexican spotted owl <i>Strix occidentalis lucida</i>	T WSCA	Canyons and dense multi-layer forests mixed conifer or ponderosa pine/gambel oak above 4,100 feet.	None - The forested mountain areas this species requires are not present in or near the project area.
Southwestern willow flycatcher <i>Empidonax traillii eximius</i>	E WSCA	Dense cottonwood/willow & tamarisk riparian communities. Along rivers and streams.	None—Project area is lacking the dense riparian forest habitat required by this species.
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	C	Riparian forests and woodlands.	None—Vegetation communities in the project area are not similar to those known to support this species.

Special Status Species eliminated from further consideration: Segment 3, Pima and Pinal Counties, Arizona

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Yuma clapper rail <i>Rallus longirostris yumanensis</i>	E	Nests primarily in freshwater marshes in mature cattail-bulrush habitat.	None—The isolated wetland habitats occupied by this subspecies do not occur in project area.
Mammals			
Mexican gray wolf <i>Canis lupus baileyi</i>	E	Chaparral, woodland, and forested areas.	None—The non-forest vegetation communities in the project area are not similar to those where this species typically occurs.
Ocelot <i>Leopardus pardalis</i>	E	Known from heavily vegetated areas of humid tropical and sub-tropical areas.	None—Project area is relatively arid and sparsely vegetated.
Sonoran pronghorn <i>Antilocapra americana sonoriensis</i>	E	Intermountain basins in southwestern Arizona.	None—Project area is outside of geographical range. Sonoran pronghorn do not occur west of SR 85; they are restricted to southwest portion of the state.

USFWS categories: Threatened (T), Endangered (E), Proposed (PT, PE), Candidate (C).

AGFD Category: Wildlife Species of Concern in Arizona (WSCA).

Primary sources: USFWS database (<http://ifw2es.fws.gov/EndangeredSpecies/lists/>).

Special Status Species eliminated from further consideration: Segment 4, Maricopa and Pinal Counties, Arizona.

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Plants			
Arizona agave <i>Agave arizonica</i>	E	This species occurs at 3,600-5,800 feet in chaparral or juniper vegetation.	None - No suitable habitat in the project area.
Arizona cliffrose <i>Purshia subintegra</i>	E	Limestone deposits above 4,000 feet in chaparral vegetation.	None - This species habitat and distribution is well north of the project area in isolated areas of chaparral in northern most Maricopa County.
Arizona hedgehog cactus <i>Echinocereus triglochidiatus</i> var. <i>arizonicus</i>	E	This species occurs in chaparral areas between 3,000 and 3,500 feet elevation	None - This species distribution is well north of the project area in mountains with woodland and chaparral vegetation.
Nichol's Turk's head cactus <i>Echinocactus horzonthalonius nicholii</i>	E	Found 3,000 and 3,500 feet elevation at the base of limestone mountains.	None—No suitable habitat in the project area (e.g., limestone soils).
Fish			
Desert pupfish (<i>Cyprinodon macularius</i>)	E	Springs, streams, and marshes.	None - This species' aquatic habitat is not present in the project area within Segment 4.

Special Status Species eliminated from further consideration: Segment 4, Maricopa and Pinal Counties, Arizona.

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
<i>Gila chub</i> <i>Gila intermedia</i>	PE	Cienegas and deep pools in smaller headwater streams.	None - This species' aquatic habitat is not present in the project area within Segment 4.
<i>Gila topminnow</i> <i>Poeciliopsis occidentalis</i>	E	Springs, streams, and cienegas.	None - This species' aquatic habitat is not present in the project area within Segment 4.
<i>Loach minnow</i> <i>Tiaroga cobitis</i>	T WSCA	Small to large perennial streams with swift shallow water over cobble and gravel.	None - This species' aquatic habitat is not present in the project area within Segment 4.
<i>Razorback sucker</i> <i>Xyrauchen texanus</i>	E	Major rivers and reservoirs in slow moving water.	None - This species' aquatic habitat is not present in the project area within Segment 4.
<i>Spikedace</i> <i>Meda fulgida</i>	T WSCA	Moderate to large perennial streams with gravel cobble substrates and moderate to swift velocities.	None - This species' aquatic habitat is not present in the project area within Segment 4.
Birds			
<i>Bald eagle</i> <i>Haliaeetus leucocephalus</i>	T WSCA	Large trees or cliffs near rivers, reservoirs, and streams with an abundant prey base (e.g., fish and waterfowl).	None—The project area does not have habitat to support either breeding or wintering birds. Perennial waters with associated prey base are not present.
<i>California brown pelican</i> <i>Pelecanus occidentalis californicus</i>	E	Coastal and islands; in Arizona occurs around lakes and rivers.	None - Suitable coastal habitat is not present. Only possibility of occurring in project area would be when blown far inland from a storm.
<i>Mexican spotted owl</i> <i>Strix occidentalis lucida</i>	T WSCA	Canyons and dense multi-layer forests mixed conifer or ponderosa pine-gambel oak above 4,100 feet.	None - The forested mountain areas this species requires are not present in or near the project area.
<i>Southwestern willow flycatcher</i> <i>Empidonax traillii extimus</i>	E WSCA	Dense cottonwood-willow and tamarisk riparian communities in conjunction with perennial rivers and streams.	None—Project area is lacking the well developed, dense riparian forest required by this species.
<i>Yellow-billed cuckoo</i> <i>Coccyzus americanus</i>	C	Riparian forests and woodlands.	None—Vegetation communities in the project area are not similar to those known to support this species.
<i>Yuma clapper rail</i> <i>Rallus longirostris yumanensis</i>	E	Nests primarily in freshwater marshes in mature cattail-bulrush habitat.	None—The isolated wetland habitats occupied by this subspecies are well removed from project area.

Special Status Species eliminated from further consideration: Segment 4, Maricopa and Pinal Counties, Arizona.

Species	Status	Habitat Requirements	Likelihood of Occurrence in the Project Area
Mammals			
Sonoran pronghorn <i>Antilocapra americana sonoriensis</i>	E	Intermountain basins in southwestern Arizona.	None—Project area is outside of this species geographic range. Sonoran pronghorn do not occur west of SR 85; they are restricted to southwest portion of the state.

USFWS categories: Threatened (T), Endangered (E), Proposed (PT, PE), Candidate (C).

AGFD Category: Wildlife Species of Concern in Arizona (WSCA).

Primary sources: USFWS database (<http://ifw2es.fws.gov/EndangeredSpecies/lists/>).

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